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(51) International classification	:G01N 30/90, G01N 30/94, G01N 30/02, G01N 30/88, A61K 36/185	(71)**Name of Applicant :** **1)Dr. Mhaveer Singh** Address of Applicant :School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh-244102 Uttar Pradesh India **2)Mr. Hemendra S Chauhan** **3)Dr. Vijay Sharma** **4)Dr. Navneet Verma** **5)Dr. Arun K. Mishra** **6)Dr. Gayyurul Islam** **7)Dr. Sayeed Ahmad**
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(57) Abstract :

The present invention relates to an optimized high-performance thin-layer chromatography (HPTLC) method for pharmacognostic profiling and standardization of Santalum album Linn. (Indian sandalwood) heartwood belonging to the family Santalaceae. The invention provides validated chromatographic fingerprints for chloroform and methanol extracts using optimized solvent systems, namely petroleum ether and diethyl ether (1:1, v/v) for the chloroform extract, and toluene, ethyl acetate, and formic acid (5:4:1, v/v/v) for the methanol extract. The method enables the separation and detection of thirteen phytoconstituents from the chloroform extract and nine phytoconstituents from the methanol extract on pre-coated silica gel 60 F254 plates using Linomat V applicator, with chromatogram scanning at 254 nm and 366 nm. The HPTLC profiles serve as unique chemical fingerprints for authentication, adulteration detection, and batch-to-batch quality control of sandalwood heartwood and herbal formulations containing the same. The method is rapid, cost-effective, reproducible, and compliant with regulatory requirements for herbal drug standardization.

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